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**From:** Andrews, Jeff [Jeffrey.Andrews@des.nh.gov]  
**Sent:** 5/26/2018 6:59:09 PM  
**To:** Arsenault, Dan [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=df5d7d3e097446d59e3c1ea966cee4f8-Arsenault, Dan]  
**CC:** stergios.spanos@des.nh.gov [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=bc76eb84e66943c1961b16d9abf7575f-stergios.spanos@des.nh.gov]; Franz, Hayley [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=1376613b1d464b3fbc0888493fc9652a-Franz, Hayl]  
**Subject:** FW: Antidegradation Sampling Schedule  
**Attachments:** ATT00001.txt; QAFSP\_Portsmouth Anti-deg\_DRAFT sjedit.pdf

Hi Dan, here's the draft plan for Pease Antideg study for toxics for your information. It was based on a similar plan developed for the Peirce Island (PI) antideg project. I anticipate that it looks very similar to PI plan that I provided to EPA previously, with the exception of any changed standards in Env-Wq 1700 and possibly different detection limits necessary for the new "sufficiently sensitive methods" rule, although I'm not sure that that rule affects the trace metals analyses (method 1669.)

I'm hoping that I can review this before I retire but I'm running out of time!

Jeff

Jeffrey G. Andrews, P.E.  
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**From:** W. Steven Clifton [mailto:sclifton@underwoodengineers.com]  
**Sent:** Wednesday, May 23, 2018 10:47 AM  
**To:** Andrews, Jeff  
**Cc:** 'Terry L. Desmarais Jr., P.E.'; Spanos, Stergios; Franz, Hayley; Tim Puhls, P.E.; Patrick E. Wiley  
**Subject:** RE: Antidegradation Sampling Schedule

May 23, 2018

Hi Jeff,

Attached please find the draft QAFSP for your review.

I will discuss sampling an additional point downstream of the Newington WWTF connection to the sewer outfall with the City. There are advantages and disadvantages to this as we discussed at previous times. There is no flow measurement at a downstream location, therefore the sample would be time based. Infiltration may lead to dilution of the concentrations.

Steve

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**From:** Andrews, Jeff <Jeffrey.Andrews@des.nh.gov>  
**Sent:** Wednesday, May 23, 2018 9:53 AM  
**To:** 'W. Steven Clifton' <sclifton@underwoodengineers.com>  
**Cc:** Terry L. Desmarais Jr., P.E. <tldesmarais@cityofportsmouth.com>; Spanos, Stergios <Stergios.Spanos@des.nh.gov>; Franz, Hayley <Hayley.Franz@des.nh.gov>  
**Subject:** RE: Antidegradation Sampling Schedule

Hi Steve, I was waiting until I reviewed the sampling/QAQC plan for the following comments but since I may be retired before I review the draft and your planning is progressing here goes:

FYI, EPA has asked that the Newington POTW be sampled at the same time as that for the Pease WWTF. They also brought up the potential issue of the quality of the effluent from the Pease WWTF changing as well as that for the flow increase. We can discuss this, but it would seem prudent to sample effluent at three locations during the four rounds. This would include the effluent from both POTW before they mix and at a location where they are combined before the diffuser.

The sampling location for the combined waste streams would be best for the Cormix input for the existing conditions. To model the future condition there may be a need to adjust the flows and/or concentrations for pollutants in both POTW's.

Sorry for any inconvenience this may cause.

Jeff

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**From:** W. Steven Clifton [<mailto:sclifton@underwoodengineers.com>]  
**Sent:** Wednesday, May 23, 2018 9:18 AM  
**To:** Stephen Jones; 'Ricardo Cantu'; Robert C. Brunette; Amanda Komarek; 'Amanda Komarek'; Tim Puhls, P.E.  
**Cc:** Terry L. Desmarais Jr., P.E.; Patrick E. Wiley; Paula Anania; 'Denis Messier'  
**Subject:** Antidegradation Sampling Schedule

May 23, 2018

Hi Team Members,

We have selected the following dates below for our sampling program for the City of Portsmouth. Please plan the logistics around these dates. Keep in mind that we need to cancel if there is any significant rainfall prior to sampling that would interfere with our efforts.

Please send me your subcontracts if you have not done so yet.

Thanks for your patience.

Steve

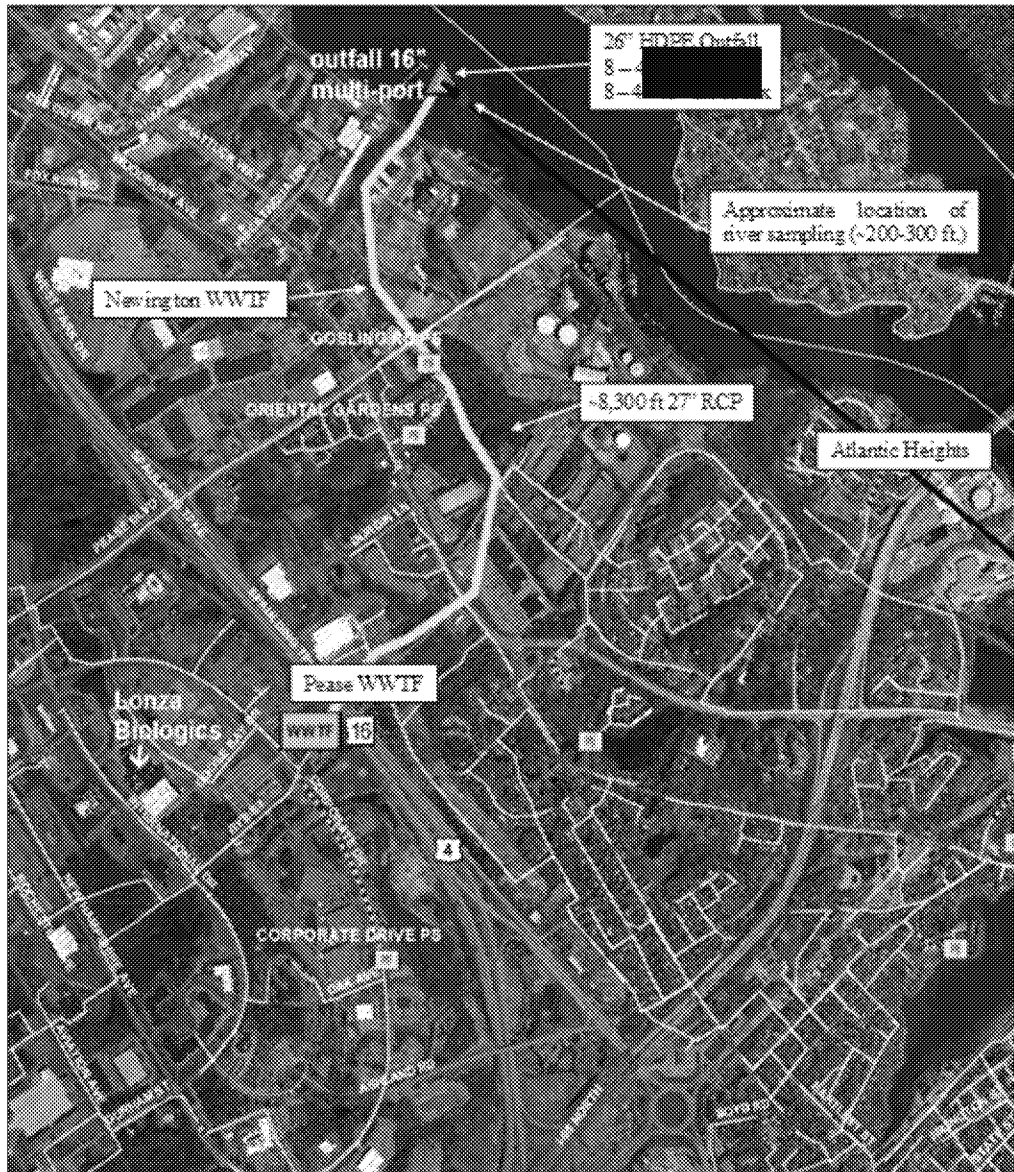
**Table 2: Details of sampling events in Piscataqua River**

Date	Day	Time of Low Tide	Tide Height (ft)	Approximate River Sampling Time
6/6/2018	Wed	11:49	6.12	13:19
7/3/2018	Tue	21:56	6.27	23:26
7/8/2018	Sun	01:22	6.37	02:52
7/23/2018	Mon	03:12	6.49	04:42

**Table 3: Details of concurrent sampling events at Pease and Newington wastewater treatment facilities.**

COMPOSITE SAMPLES						GRAB SAMPLES		
Start			End					
Date	Day	Time	Date	Day	Time	Date	Day	Time
6/5/2018	Tues	08:00	6/6/2018	Wed	08:00	6/6/2018	Wed	08:00
7/2/2018	Mon	08:00	7/3/2018	Tue	08:00	7/3/2018	Tue	08:00
7/6/2018	Fri	08:00	7/7/2018	Sat	08:00	7/7/2018	Sat	08:00
7/21/2018	Sat	08:00	7/22/2018	Sun	08:00	7/22/2018	Sun	08:00

## PEASE WWTF - LOCATION OVERVIEW



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